

WHAT IS CLAIMED IS:

1. A polyurea coating composition that exhibits a dual cure phenomena, said polyurea coating composition comprising:

a polyaspartic ester; and

a polyisocyanate,

wherein the polyisocyanate is present in an amount that is greater than a normal stoichiometric amount for the polyaspartic ester.

2. A polyurea coating composition according to claim 1, wherein the polyaspartic ester that is over indexed with the polyisocyanate above 1.5 of NCO to NH.

3. A polyurea coating composition according to claim 1, wherein the polyaspartic ester comprises a blend of polyaspartic esters.

4. A polyurea coating composition according to claim 1, wherein the polyisocyanate is a member selected from the group consisting of aliphatic polyisocyanates, alicyclic polyisocyanates, aromatic polyisocyanates, and mixtures thereof.

5. A polyurea coating composition according to claim 4, wherein the polyisocyanate comprises an aliphatic polyisocyanate.

6. A method of preparing a polyurea coating composition which comprises:  
providing a polyaspartic ester;  
providing a polyisocyanate; and  
mixing the polyaspartic ester and the polyisocyanate together so that the polyisocyanate is present in an amount that is greater than a normal stoichiometric amount for the polyaspartic ester.

7. A method of preparing a polyurea coating composition according to claim 6, wherein the polyaspartic ester that is over indexed with the polyisocyanate above 1.5.

8. A method of preparing a polyurea coating composition according to claim 6, wherein the polyaspartic ester comprises a blend of polyaspartic esters.

9. A method of preparing a polyurea coating composition according to claim 6, wherein the polyisocyanate is a member selected from the group consisting of aliphatic polyisocyanates, alicyclic polyisocyanates, aromatic polyisocyanates, and mixtures thereof.

10. A method of preparing a polyurea coating composition according to claim 9, wherein the polyisocyanate comprises an aliphatic polyisocyanate.

12. A surface finish which comprises a cured composition that includes a polyaspartic ester and a polyisocyanate, wherein the polyisocyanate is present in an amount that is greater than a normal stoichiometric amount for the polyaspartic ester prior to curing.

13. A surface finish according to claim 12, wherein the polyaspartic ester that is over indexed with the polyisocyanate above 1.5.

14. A surface finish according to claim 12, wherein the polyaspartic ester comprises a blend of polyaspartic esters.

15. A surface finish according to claim 12, wherein the polyisocyanate is a member selected from the group consisting of aliphatic polyisocyanates, alicyclic polyisocyanates, aromatic polyisocyanates, and mixtures thereof.

16. A surface finish according to claim 15, wherein the polyisocyanate comprises an aliphatic polyisocyanate.

17. A method for forming a surface finish which comprises:

providing a polyaspartic ester;

providing a polyisocyanate;

mixing the polyaspartic ester and the polyisocyanate together so that the polyisocyanate is present in an amount that is greater than a normal stoichiometric amount for the polyaspartic

ester;

applying the mixed composition to a surface to form a surface coating; and  
allowing the applied surface coating to cure.

18. A method for forming a surface finish according to claim 17, wherein the polyaspartic ester that is over indexed with the polyisocyanate above 1.5.

19. A method for forming a surface finish according to claim 18, wherein the polyaspartic ester comprises a blend of polyaspartic esters.

20. A method for forming a surface coating according to claim 18, wherein the polyisocyanate is a member selected from the group consisting of aliphatic polyisocyanates, alicyclic polyisocyanates, aromatic polyisocyanates, and mixtures thereof.

21. A method for forming a surface coating according to claim 20, wherein the polyisocyanate comprises an aliphatic polyisocyanate.